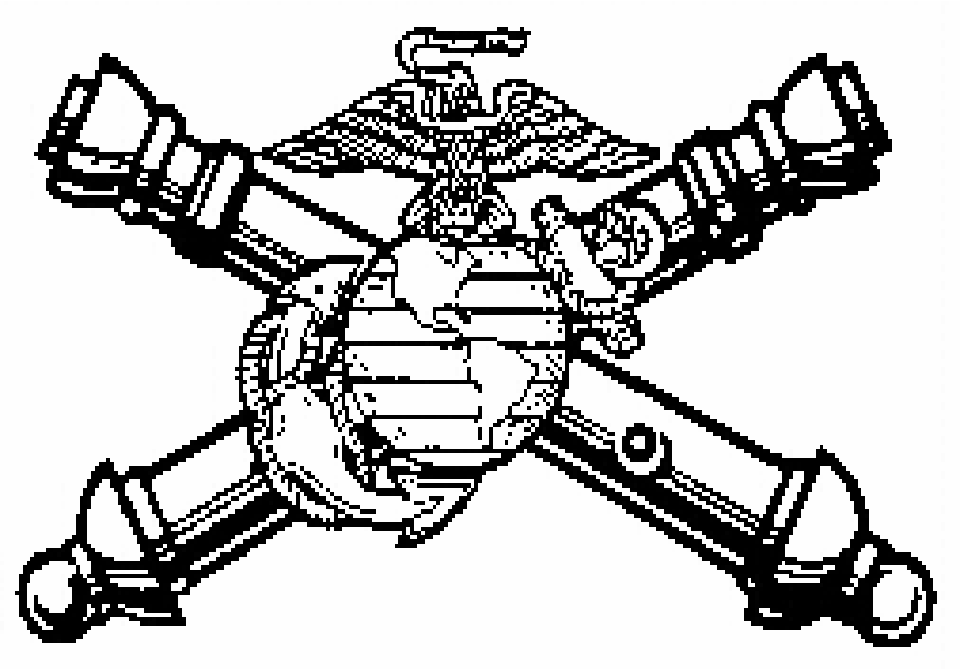
MARINE CORPS FIELD ARTILLERY FIRE CONTROLMAN COURSE



INTRODUCTION TO FIELD ARTILLERY

Objective:

To introduce the student to Marine Corps Field Artillery

ARTILLERY WEAPON SYSTEMS

- CANNON ARTILLERY - Requires the detonation of a low order explosive called propellant, to propel the projectile to the target.
  - GUNS: Characterized as a long barreled cannon possessing a high velocity and low trajectory.

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- ROCKET ARTILLERY - Self contained system which utilizes a rocket motor and warhead to deliver the payload to the target.
- MISSLE ARTILLERY - Improved Rocket Artillery.
  - A guidance system controls the warhead.

CAPABILITIES OF FIELD ARTILLERY

- **FIRE MOBILITY - By shifting fire of it's weapons rapidly within a large area and on a wide front without displacing.**
- **MASSING FIRES - Massing fires of more than one unit onto a target.**
- **INDIRECT FIRES - Placing fires on targets not visible to the unit.**
- **SUSTAINED FIRES - Delivering accurate sustained fires under all conditions of visibility, weather, and terrain.**
- **ILLUMINATION - Providing battlefield illumination.**

LIMITATIONS OF ARTILLERY

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- **RANGE IS LIMITED (30,000 METERS)**

MISSION OF MARINE CORPS ARTILLERY

1 **PROVIDE CLOSE AND CONTINUOUS FIRE SUPPORT.**

2 **GIVE DEPTH TO THE BATTLE.**

3 **ACHIEVE AND MAINTAIN FIRE SUPERIORITY.**

PROVIDE CLOSE AND CONTINUOUS FIRE SUPPORT

- **TO ELEMENTS OF THE LANDING FORCE BY DESTOYING, NEUTRALIZING OR SUPPRESSING THOSE TARGETS WHICH CONSTITUTE A SERIOUS THREAT TO THE SUPPORTED UNIT.**

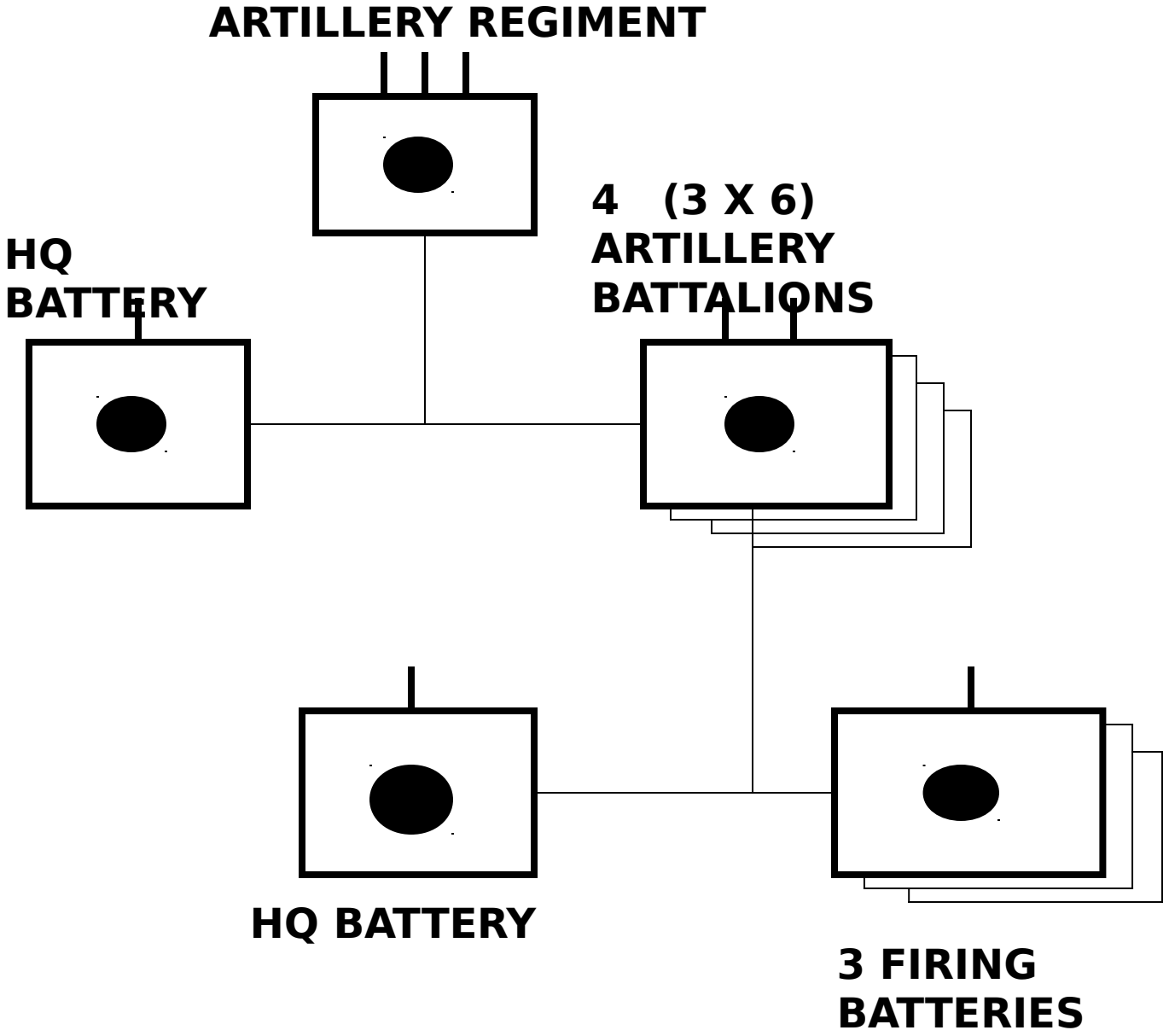
- **DESTROY - PERMANENTLY KNOCK THE ENEMY UNIT OUT OF THE BATTLE.**
  - **30 % CAUALTIES OR MORE WILL RENDER A UNIT PERMANENTLY INEFFECTIVE.**
- **NEUTRALIZE - TEMPORARILY KNOCK THE ENEMY UNIT OUT OF THE BATTLE.**
  - **10% CASUALTIES OR MORE WILL RENDER A UNIT TEMPORARILY INEFFECTIVE.**
- **SUPPRESS - LIMIT ENEMY PERSONNEL IN PERFORMANCE OF THEIR MISSION.**

GIVE DEPTH TO THE BATTLE

- BY ATTACKING HOSTILE RESERVES, RESTRICTING MOVEMENT, PROVIDING LONG RANGE SUPPORT FOR RECONNAISSANCE ELEMENTS AND DISRUPTING COMMAND SYSTEMS AND OTHER INSTALLATIONS.

ACHIEVE AND MAINTAIN FIRE SUPERIORITY

- **OVER THE ENEMY'S FIRE SUPPORT SYSTEMS.**


ARTILLERY REGIMENT
HQ
BATTERY
4 (3 X 6)
ARTILLERY
BATTALIONS
HQ BATTERY
3 FIRING
BATTERIES

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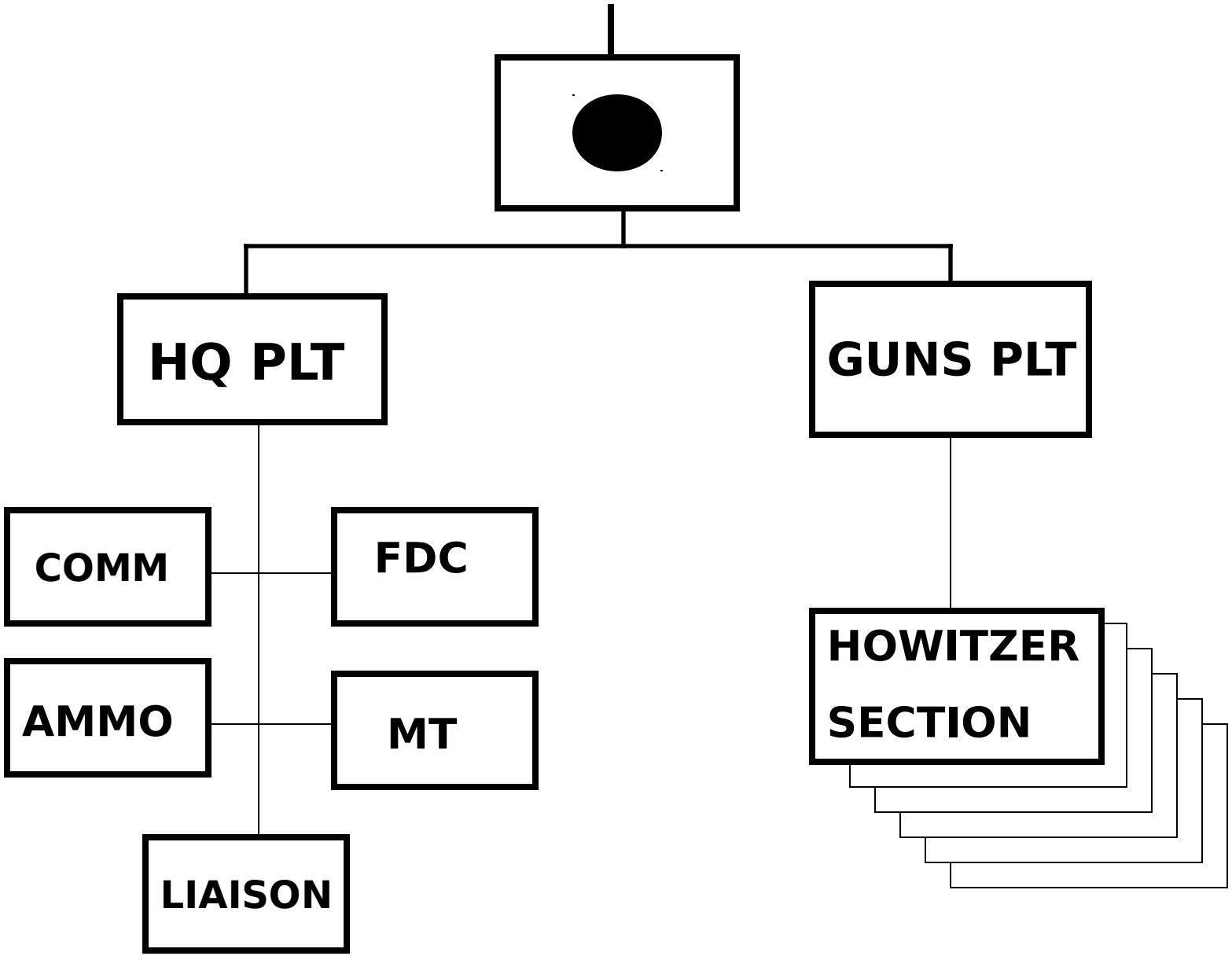

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MEMBERS OF THE FDC

- **FIRE DIRECTION OFFICER (FDO) : RESPONSIBLE FOR THE FDC. NORMALLY A LT.**
- **OPERATIONS CHIEF (OPS CHIEF) : TECHNICAL EXPERT OF THE FDC. NORMALLY A SSGT.**
- **COMPUTER : DETERMINES FIRING DATA AND ANNOUNCES FIRE COMMANDS TO THE GUNS. NORMALLY AN NCO.**
- **HORIZONTAL CONTROL OPERATOR (HCO) : CONSTRUCTS THE PRIMARY FIRING CHART AND ANNOUNCES CHART DATA. NORMALLY A LCPL OR BELOW.**
- **VERTICAL CONTROL OPERATOR (VCO): DETERMINES SITE, AND IS RESPONSIBLE FOR THE CHECK CHART. NORMALLY A LCPL OR BELOW.**

ARTILLERY REGIMENTS

- 1st Marine Division
  - 11th Marine Regiment
    - Las Pulgas, Camp Pendleton, Ca
- 2nd Marine Division
  - 10th Marine Regiment
    - Camp Lejeune, NC
- 3rd Marine Division
  - 12th Marine Regiment
    - Camp Hansen, Okinawa Japan

Artillery Reserve

- 4th Marine Division
  - 14th Marine Regiment
    - Hq’s Fort Worth, Texas